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## **Lone Pine Mine**

**1. Location/Land Status:** The Lone Pine Mine is located on BLM land within Section 8, T11N, R9W on the USGS Grants quadrangle, some 3 miles north of Grants, NM. Physical access to the mine can be gained by traveling 8 miles east from Grants on Lobo Canyon Road, northwest approximately 2.5 miles on USFS 450, then 1 mile southwest on an undesignated access road to the end of the road, and overland via foot to the mine site. Conditions on USFS 450 can be dangerous (snow or mud), therefore SMA recommends checking with Chuck Hagerman at the USFS station in Grants before traveling this area.

**2. Human Activity:** No evidence of human activity beyond historical mining was noted.

**3. Radiological Survey:** Radiological survey results were as follows: ground surface maximum of 70  $\mu$ R/hour and minimum of 9  $\mu$ R/hour. Four-foot elevation maximum was 23  $\mu$ R/hour and minimum was 8  $\mu$ R/hour. Background radiation levels are approximately 10  $\mu$ R/hour.

**4. Mine Disturbance:** The mine consists of two lateral cuts of an estimated 2 acres into the northern side of Grants Ridge. The upper cut has a wooden load-out structure which served the lower cut. The loadout structure is approximately 15 ft. square by 25 feet tall. The mine is only revealed as separate from the various road cuts by the presence of the load-out structure. Erosion has obscured any remains of an access road.

**5. Plant Community:** The area surrounding the mine is typical pinon/juniper scrub. The vegetation on site consists of the following: 40% grass, 10% woody scrub, 30% forbs, 5% trees, and the remainder bare earth.

**6. Soils:** Site soils are Rock outcrop-Vessilla-Mion complex, 3 to 55 percent slopes, 0 to 2 inches sandy loam, 2 to 11 inches silty clay, 11 to 19 inches bedrock.

**7. Wildlife:** There were numerous signs of wildlife on the site including the direct observation of a raptor, deer (4), and coyote (audible).

**8. Land Use:** Land use at the mine includes light grazing off-site (none noted on-site).

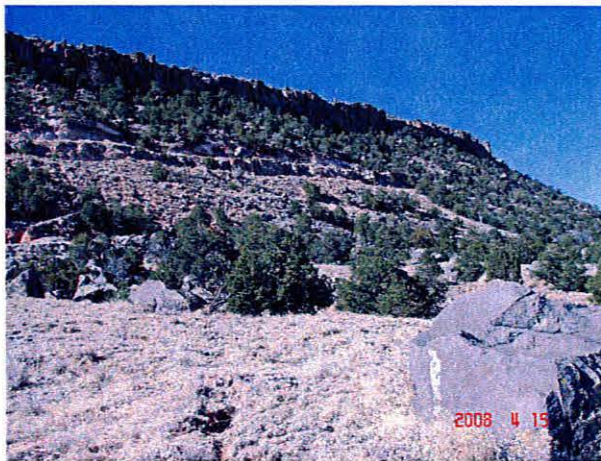
**9. Off-Site Impacts:** No off-site impacts were noted.

**10. Topographic Features:** The site is cut into the side of a mesa. Erosion of the cut and access roads is present.

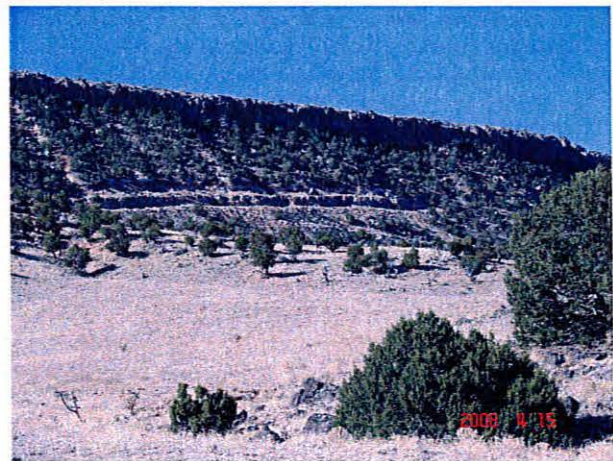
**11. Hydrogeology:** Based on a review of the NMOSE iWaters database, there are no well records within a one mile search radius. The nearest well to the site with a recorded depth to water is approximately 1.3 miles to the east, with a depth to water of 115 feet.

The nearest surface water drainage feature is approximately 0.2 miles north of the site.

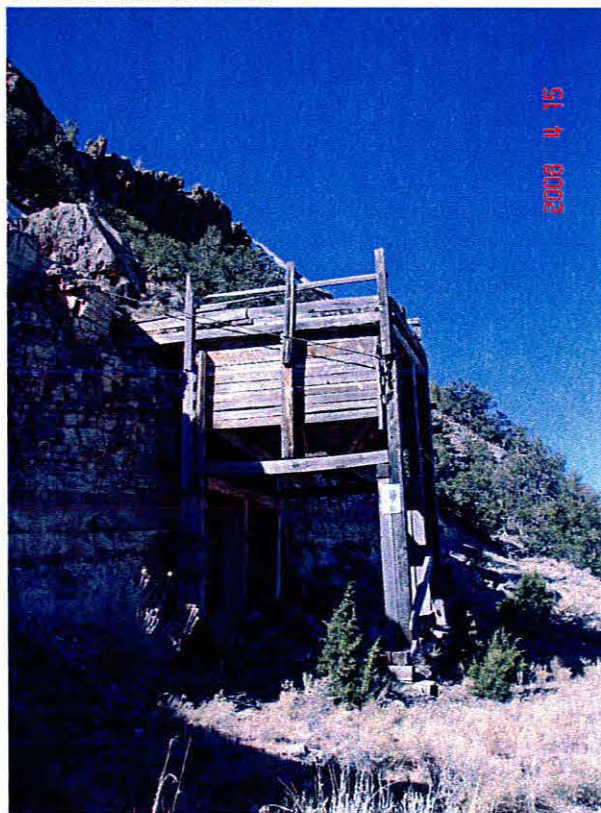




View south to mine

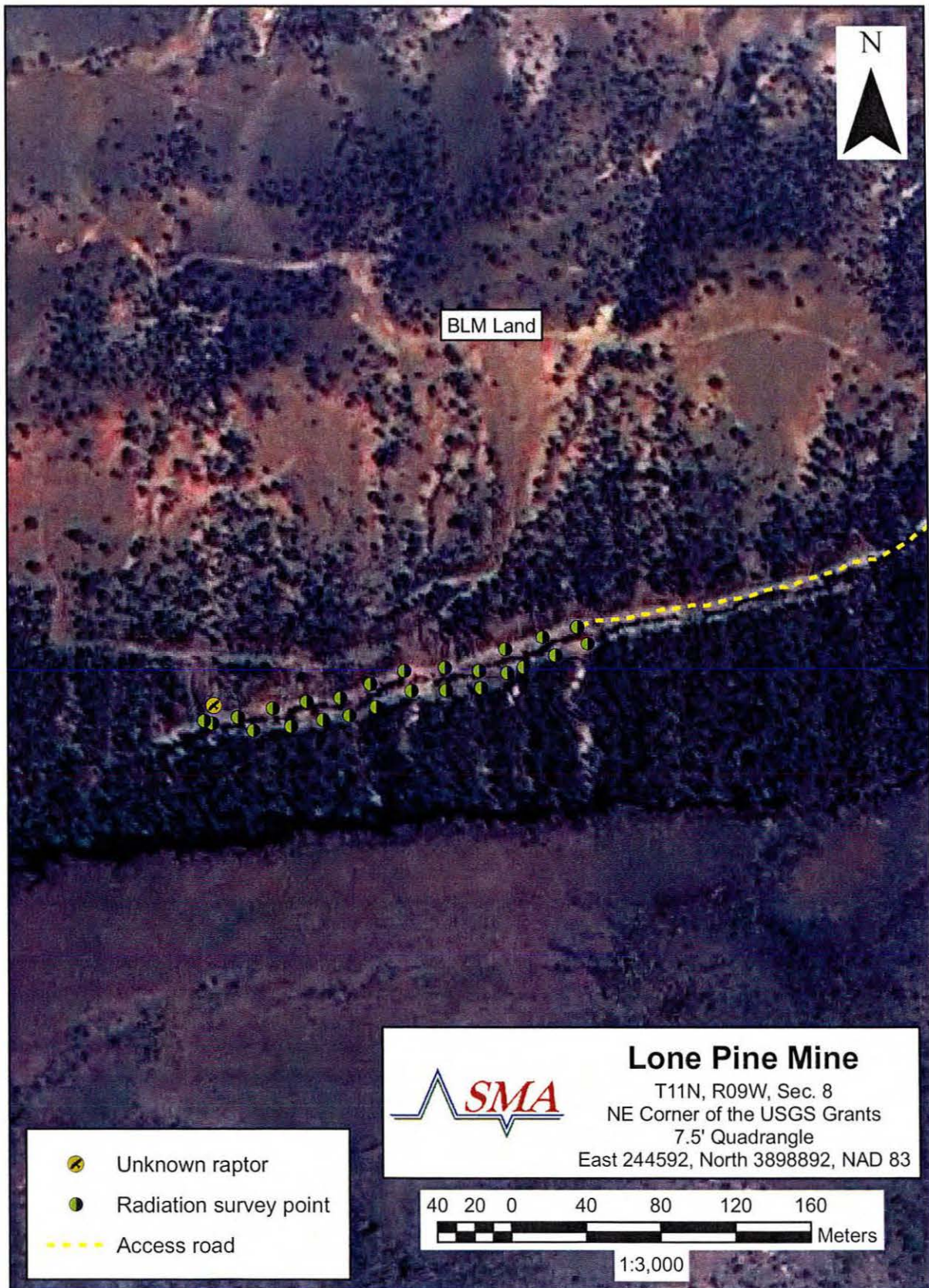


View south to mine



Mine load-out





## AUM Field Survey Data Sheet

Site Love Pave

Date <u>4/15/08</u>	Time On-Site	Time Off-Site	By <u>Baldwin Merte</u>	
Weather Conditions:				
<b>Disturbances</b>	GPS#	Description	Dim/Area/Volume	Photo #'s
Shafts				
Adits				
Pits				
Waste Rock Dumps				
Tailings				
Trenches				
Roads		Dirt - not maintained - 2 cuts		
Erosional Features		- cuts & access road eroded		
<b>Structures / Equipment</b>	GPS#	Description	Dimensions	Photo #
Buildings	<u>GØ</u>	<u>loadout</u>	<u>15' x 15' x 25'</u>	<u>✓</u>
Headframes				

## AUM Field Survey Data Sheet

Site Love Pine

Equipment				
<b>Soils</b>	GPS#	Description	Extent	Photo #
<b>Vegetation</b>	GPS#	Description	Extent	Photo #
		40% grass 30% forbs 10% shrubs 5% trees 15% bare		
<b>Wildlife</b>	GPS#	Description		Photo #
		- possible buteo (raptor)		
<b>Human Activity</b> (non-mining, w/in 0.5 mi of site)	GPS#	Description	Extent	Photo #
<b>Land Use</b> (grazing, agricultural, roads, etc., w/in 0.5 mi of site)	GPS#	Description	Extent	Photo #
		light grazing off-site		
<b>Nearby Residences / Wells</b> (w/in 0.5 mi of site)	GPS#	Description	Distance to Site	Photo #
<b>Topographic Features</b> (roads, water courses, etc.)	GPS#	Description		Photo #



## AUM Field Survey Data Sheet

Site Line Line 2008-4-15

Radiological Survey			
GPS#	Description	Reading Surface	Reading 4 feet
G0	Rad. survey (loadout ✓) /-photo	14	16
G1	"	10	10
G2	"	10	10
G3	"	10	10
G4	"	10	10
G5	"	12	10
G6	"	13	10
G7	"	10	10
G8	"	10	10
G9	"	13	11
G10	"	12	12
G11	"	12	12
G12	"	10	10
G13	"	70	23
G14	"	10	10

## AUM Field Survey Data Sheet

Site Lone Pine 2008-4-15

Radiological Survey			
GPS#	Description	Reading Surface	Reading 4 feet
G15	Rad survey	12	10
G16	"	10	10
G17	"	9	8
G18	"	12	11
G19	"	11	8
G20	"	9	8
G21	"	10	10
G22	"	13	13
G23	"	13	12
G24	"	12	11